

PCT

H5

RAW SEQUENCE LISTING

DATE: 04/04/2001

PATENT APPLICATION: US/09/806,080

TIME: 11:20:05

Input Set : A:\S0109991.app

Output Set: N:\CRF3\04042001\I806080.raw

W--> 1 ~~SEQUENZPROTOKOLL~~ → Delete from beginning of file.
 3 <110> APPLICANT: Jomaa, Hassan
 5 <120> TITLE OF INVENTION: Gene des 1-Desoxy-D-xylulose-Biosynthesewegs
 7 <130> FILE REFERENCE: 15696
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/806,080
 C--> 10 <141> CURRENT FILING DATE: 2001-03-22
 12 <150> PRIOR APPLICATION NUMBER: DE19923567.8
 13 <151> PRIOR FILING DATE: 1999-05-22
 15 <150> PRIOR APPLICATION NUMBER: DE19843279.8
 16 <151> PRIOR FILING DATE: 1998-09-22
 18 <160> NUMBER OF SEQ ID NOS: 6
 20 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
 Corrected Diskette Needed

See p. 4

ERRORED SEQUENCES

597 <210> SEQ ID NO: 4
 598 <211> LENGTH: 1205
 599 <212> TYPE: PRT
 600 <213> ORGANISM: Plasmodium falciparum
 602 <400> SEQUENCE: 4
 603 Met Ile Phe Asn Tyr Val Phe Phe Lys Asn Phe Val Pro Val Val Leu
 604 1 5 10 15
 606 Tyr Ile Leu Leu Ile Ile Tyr Ile Asn Leu Asn Gly Met Asn Asn Lys
 607 20 25 30
 609 Asn Gln Ile Lys Thr Glu Lys Ile Tyr Ile Lys Lys Leu Asn Arg Leu
 610 35 40 45
 612 Ser Arg Lys Asn Ser Leu Cys Ser Ser Lys Asn Lys Ile Ala Cys Leu
 613 50 55 60
 615 Phe Asp Ile Gly Asn Asp Asp Asn Arg Asn Thr Thr Tyr Gly Tyr Asn
 616 65 70 75 80
 618 Val Asn Val Lys Asn Asp Asp Ile Asn Ser Leu Leu Lys Asn Asn Tyr
 619 85 90 95
 621 Ser Asn Lys Leu Tyr Met Asp Lys Arg Lys Asn Ile Asn Asn Val Ile
 622 100 105 110
 624 Ser Thr Asn Lys Ile Ser Gly Ser Ile Ser Asn Ile Cys Ser Arg Asn
 625 115 120 125
 627 Gln Lys Glu Asn Glu Gln Lys Arg Asn Lys Gln Arg Cys Leu Thr Gln
 628 130 135 140
 630 Cys His Thr Tyr Asn Met Ser His Glu Gln Asp Lys Leu Ala Asn Asp
 631 145 150 155 160
 633 Asn Asn Arg Asn Asn Lys Lys Asn Phe Asn Leu Leu Phe Ile Asn Tyr
 634 165 170 175
 636 Phe Asn Leu Lys Arg Met Lys Asn Ser Leu Leu Asn Lys Asp Asn Phe
 637 180 185 190
 639 Phe Tyr Cys Lys Glu Lys Lys Leu Ser Phe Leu His Lys Ala Tyr Lys
 640 195 200 205

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,080

DATE: 04/04/2001

TIME: 11:20:06

Input Set : A:\S0109991.app

Output Set: N:\CRF3\04042001\I806080.raw

TOF050-03090866

```

642 Lys Lys Asn Cys Thr Phe Gln Asn Tyr Ser Leu Lys Arg Lys Ser Asn
643      210                215                220
645 Arg Asp Ser His Lys Leu Phe Ser Gly Glu Phe Asp Asp Tyr Thr Asn
646 225                230                235                240
648 Asn Asn Ala Leu Tyr Glu Ser Glu Lys Lys Glu Tyr Ile Thr Leu Asn
649      245                250                255
651 Asn Asn Asn Lys Asn Asn Asn Asn Lys Asn Asn Asp Asn Lys Asn Asn
652      260                265                270
654 Asp Asn Asn Asp Tyr Asn Asn Asn Asn Ser Cys Asn Asn Leu Gly Glu
655      275                280                285
657 Arg Ser Asn His Tyr Asp Asn Tyr Gly Gly Asp Asn Asn Asn Pro Cys
658      290                295                300
660 Asn Asn Asn Asn Asp Lys Tyr Asp Ile Gly Lys Tyr Phe Lys Gln Ile
661 305                310                315                320
663 Asn Thr Phe Ile Asn Ile Asp Glu Tyr Lys Thr Ile Tyr Gly Asp Glu
664      325                330                335
666 Ile Tyr Lys Glu Ile Tyr Glu Leu Tyr Val Glu Arg Asn Ile Pro Glu
667      340                345                350
669 Tyr Tyr Glu Arg Lys Tyr Phe Ser Glu Asp Ile Lys Lys Ser Val Leu
670      355                360                365
672 Phe Asp Ile Asp Lys Tyr Asn Asp Val Glu Phe Glu Lys Ala Ile Lys
673      370                375                380
675 Glu Glu Phe Ile Asn Asn Gly Val Tyr Ile Asn Asn Ile Asp Asn Thr
676 385                390                395                400
678 Tyr Tyr Lys Lys Glu Asn Ile Leu Ile Met Lys Lys Ile Leu His Tyr
679      405                410                415
681 Phe Pro Leu Leu Lys Leu Ile Asn Asn Pro Ser Asp Leu Lys Lys Leu
682      420                425                430
684 Lys Lys Gln Tyr Leu Pro Leu Leu Ala His Glu Leu Lys Ile Phe Leu
685      435                440                445
687 Phe Phe Ile Val Asn Ile Thr Gly Gly His Phe Ser Ser Val Leu Ser
688      450                455                460
690 Ser Leu Glu Ile Gln Leu Leu Leu Leu Tyr Ile Phe Asn Gln Pro Tyr
691 465                470                475                480
693 Asp Asn Val Ile Tyr Asp Ile Gly His Gln Ala Tyr Val His Lys Ile
694      485                490                495
696 Leu Thr Gly Arg Lys Leu Leu Phe Leu Ser Leu Arg Asn Lys Lys Gly
697      500                505                510
699 Ile Ser Gly Phe Leu Asn Ile Phe Glu Ser Ile Tyr Asp Lys Phe Gly
700      515                520                525
702 Ala Gly His Ser Ser Thr Ser Leu Ser Ala Ile Gln Gly Tyr Tyr Glu
703      530                535                540
705 Ala Glu Trp Gln Val Lys Asn Lys Glu Lys Tyr Gly Asn Gly Asp Ile
706 545                550                555                560
708 Glu Ile Ser Asp Asn Ala Asn Val Thr Asn Asn Glu Arg Ile Phe Gln
709      565                570                575
711 Lys Gly Ile His Asn Asp Asn Asn Ile Asn Asn Asn Ile Asn Asn Asn
712      580                585                590
714 Asn Tyr Ile Asn Pro Ser Asp Val Val Gly Arg Glu Asn Thr Asn Val

```

RAW SEQUENCE LISTING

DATE: 04/04/2001

PATENT APPLICATION: US/09/806,080

TIME: 11:20:06

Input Set : A:\S0109991.app

Output Set: N:\CRF3\04042001\I806080.raw

"09806080" 09806080

715	595	600	605
717 Pro Asn Val Arg Asn Asp Asn His Asn Val Asp Lys Val His Ile Ala			
718 610	615	620	
720 Ile Ile Gly Asp Gly Gly Leu Thr Gly Gly Met Ala Leu Glu Ala Leu			
721 625	630	635	640
723 Asn Tyr Ile Ser Phe Leu Asn Ser Lys Ile Leu Ile Ile Tyr Asn Asp			
724 645	650	655	
726 Asn Gly Gln Val Ser Leu Pro Thr Asn Ala Val Ser Ile Ser Gly Asn			
727 660	665	670	
729 Arg Pro Ile Gly Ser Ile Ser Asp His Leu His Tyr Phe Val Ser Asn			
730 675	680	685	
732 Ile Glu Ala Asn Ala Gly Asp Asn Lys Leu Ser Lys Asn Ala Lys Glu			
733 690	695	700	
735 Asn Asn Ile Phe Glu Asn Leu Asn Tyr Asp Tyr Ile Gly Val Val Asn			
736 705	710	715	720
738 Gly Asn Asn Thr Glu Glu Leu Phe Lys Val Leu Asn Asn Ile Lys Glu			
739 725	730	735	
741 Asn Lys Leu Lys Arg Ala Thr Val Leu His Val Arg Thr Lys Lys Ser			
742 740	745	750	
744 Asn Asp Phe Ile Asn Ser Lys Ser Pro Ile Ser Ile Leu His Ser Ile			
745 755	760	765	
747 Lys Lys Asn Glu Ile Phe Pro Phe Asp Thr Thr Ile Leu Asn Gly Asn			
748 770	775	780	
750 Ile His Lys Glu Asn Lys Ile Glu Glu Glu Lys Asn Val Ser Ser Ser			
751 785	790	795	800
753 Thr Lys Tyr Asp Val Asn Asn Lys Asn Asn Lys Asn Asn Asp Asn Ser			
754 805	810	815	
756 Glu Ile Ile Lys Tyr Glu Asp Met Phe Ser Lys Glu Thr Phe Thr Asp			
757 820	825	830	
759 Ile Tyr Thr Asn Glu Met Leu Lys Tyr Leu Lys Lys Asp Arg Asn Ile			
760 835	840	845	
762 Ile Phe Leu Ser Pro Ala Met Leu Gly Gly Ser Gly Leu Val Lys Ile			
763 850	855	860	
765 Ser Glu Arg Tyr Pro Asn Asn Val Tyr Asp Val Gly Ile Ala Glu Gln			
766 865	870	875	880
768 His Ser Val Thr Phe Ala Ala Ala Met Ala Met Asn Lys Lys Leu Lys			
769 885	890	895	
771 Ile Gln Leu Cys Ile Tyr Ser Thr Phe Leu Gln Arg Ala Tyr Asp Gln			
772 900	905	910	
774 Ile Ile His Asp Leu Asn Leu Gln Asn Ile Pro Leu Lys Val Ile Ile			
775 915	920	925	
777 Gly Arg Ser Gly Leu Val Gly Glu Asp Gly Ala Thr His Gln Gly Ile			
778 930	935	940	
780 Tyr Asp Leu Ser Tyr Leu Gly Thr Leu Asn Asn Ala Tyr Ile Ile Ser			
781 945	950	955	960
783 Pro Ser Asn Gln Val Asp Leu Lys Arg Ala Leu Arg Phe Ala Tyr Leu			
784 965	970	975	
786 Asp Lys Asp His Ser Val Tyr Ile Arg Ile Pro Arg Met Asn Ile Leu			
787 980	985	990	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/806,080

DATE: 04/04/2001
TIME: 11:20:06

Input Set : A:\S0109991.app
Output Set: N:\CRF3\04042001\I806080.raw

789 Ser Asp Lys Tyr Met Lys Gly Tyr Leu Asn Ile His Met Lys Asn Glu
790 995 1000 1005
792 Ser Lys Asn Ile Asp Val Asn Val Asp Ile Asn Asp Asp Val Asp Lys
793 1010 1015 1020
795 Tyr Ser Glu Glu Tyr Met Asp Asp Asp Asn Phe Ile Lys Ser Phe Ile
E--> 796 025 1030 1035 1040
798 Gly Lys Ser Arg Ile Ile Lys Met Asp Asn Glu Asn Asn Asn Thr Asn
799 1045 1050 1055
801 Glu His Tyr Ser Ser Arg Gly Asp Thr Gln Thr Lys Lys Lys Lys Val
802 1060 1065 1070
804 Cys Ile Phe Asn Met Gly Ser Met Leu Phe Asn Val Ile Asn Ala Ile
805 1075 1080 1085
807 Lys Glu Ile Glu Lys Glu Gln Tyr Ile Ser His Asn Tyr Ser Phe Ser
808 1090 1095 1100
810 Ile Val Asp Met Ile Phe Leu Asn Pro Leu Asp Lys Asn Met Ile Asp
E--> 811 105 1110 1115 1120
813 His Val Ile Lys Gln Asn Lys His Gln Tyr Leu Ile Thr Tyr Glu Asp
814 1125 1130 1135
816 Asn Thr Ile Gly Gly Phe Ser Thr His Phe Asn Asn Tyr Leu Ile Glu
817 1140 1145 1150
819 Asn Asn Tyr Ile Thr Lys His Asn Leu Tyr Val His Asn Ile Tyr Leu
820 1155 1160 1165
822 Ser Asn Glu Pro Ile Glu His Ala Ser Phe Lys Asp Gln Gln Glu Val
823 1170 1175 1180
825 Val Lys Met Asp Lys Cys Ser Leu Val Asn Arg Ile Lys Asn Tyr Leu
E--> 826 185 1190 1195 1200
828 Lys Asn Asn Pro Thr
829 1205

*Invalid amino acid numbers.
Move numbers circled one space
to the right as shown below.*

*Tyr
1 0 2 5*

*Ile
1 1 0 5*

*Val
1 1 8 5*

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/806,080

DATE: 04/04/2001

TIME: 11:20:07

Input Set : A:\S0109991.app

Output Set: N:\CRF3\04042001\I806080.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:796 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332, Repeated in SeqNo=4

F0F090.08090860